FLUKE FALL PREMIERS AFR 18 GREAT INSTRUMENTS

NEC, CHICAGO, OCTOBER 3-5, 1966, BOOTH 768 ISA, NEW YORK CITY, OCTOBER 24-27, 1966, BOOTH 2139 NEREM, BOSTON, NOVEMBER 2-4, 1966, BOOTH 1D 83

NEW DC VOLTAGE AND RATIO CALIBRATION SYSTEM

All solid state... has its own self-calibrating KV divider... adjustable reference divider... high impedance null detector... dc voltage calibrator—accurate to better than 10 ppm from 0 to 1100 volts... dc voltage ratio calibration accurate to ±0.1 ppm from 0 to 1100 volts.

FOR ALL OF THESE APPLICATIONS

DC voltage standard ... dc voltage ratio standard ... dc differential voltmeter ... voltage divider ... differential and digital voltmeters ... reference oplies ... laboratory potentiometers and ... X-Y recorders.

ds lab accuracy in portable instrumentation

w Fluke 7101 DC Voltage and Ratio Calibration has all of the most wanted in both standards laboratory ion measurement and

pplications.
onent in the system is a
ff the shelf" Fluke
ouilt with traditional
o detail and unsurpassed
m workmanship. Components
of from top to bottom,
ol 720A Kelvin-Varley
or, Model 721A Lead
Model 845AR Null
crovoltmeter, Model 750A
vider, and Model 332A

A LEAD MPENSATOR

rator

ad compensation, where
n standard and test
great as 4000:1, is
the Model 721A. Mode
for electrically interchanging
and test divider, as well as
N-OFF for operator
provided. Price: \$245.

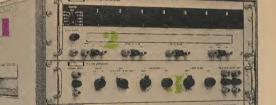
NULL

The Model 845AR has a 10 megohm input resistance and 19 end-scale ranges from 1 microvolt to 900 volts dc. 1100 volts may be applied to the input on my range without damage. The Model 845AR may be red to 1100 volts (either terminal).

2

720A KELVIN-VARLEY DIVIDER

The Model 720A incorporates an internal Wheatstone bridge and adjustable resistors on the first three decades, making it a "self-calibrating" ratio standard with ± 0.1 ppm absolute linearity. Price: \$1,195.



750A REFERENCE DIVIDER

The Model 750A is an adjustable resistive divider with a ratio accuracy of ±0.001% of output ±5 µvolts for one year. Because its accuracy is related to saturated standard cells, the output is considered traceable to the National Bureau of Standards. Calibration can be maintained at better than ±5 ppm of output. Price: \$995.



332A VOLTAGE CALIBRATOR

The Model 332A is an extremely stable and accurate do voltage source, covering the range from 0 to 1111.1110 volts. The basic accuracy of the Model 332A is ±30 ppm of setting and may be used either as a voltage calibrator or as shown in a system. In the 7101 system the Model 332A provides adequate esolution allowing voltage measurement

stability and resolution, allowing voltage measurement to better than ± 10 ppm of output. Price: \$2,490.

THE FIRST TRUE RMS DIFFERENTIAL VOLTMETER, 931A

Here is one of the major advances in ac metrology of the past 20 years. The Fluke 931A will measure virtually any waveform within 0.05% from 30 Hz to 50 KHz. Overall frequency response is 10 Hz to 1 MHz. Range is 0.01 to 1100 volts. Ten to one crest factor accounts for effects caused by voltage spikes and pulse trains. Comes with or without probe. Both combination line/rechargeable battery powered versions are available. Base price: \$895.

INFINITE RESISTANCE AT NULL TO 1100 VOLTS, 895A

• This new differential voltmeter is accurate to $\pm 0.0025\%$ of dial setting. Using the ratio measurement feature, two external sources can be compared to a resolution of 0.0001%. In the TVM mode, input resistance is 100 megohms. Reference regulation is 0.0002%. Stability is 13 ppm peak-to-peak per 60 days. Readout is 6 digit inline to a dial resolution of 1 ppm. Recorder output is well isolated and linear to within 0.5% of end scale. Ten percent overranging minimizes range changing and offers increased resolution on the lower end of each range. Price: \$1,195.

881A SOLID STATE DC DIFFERENTIAL VOLTMETER

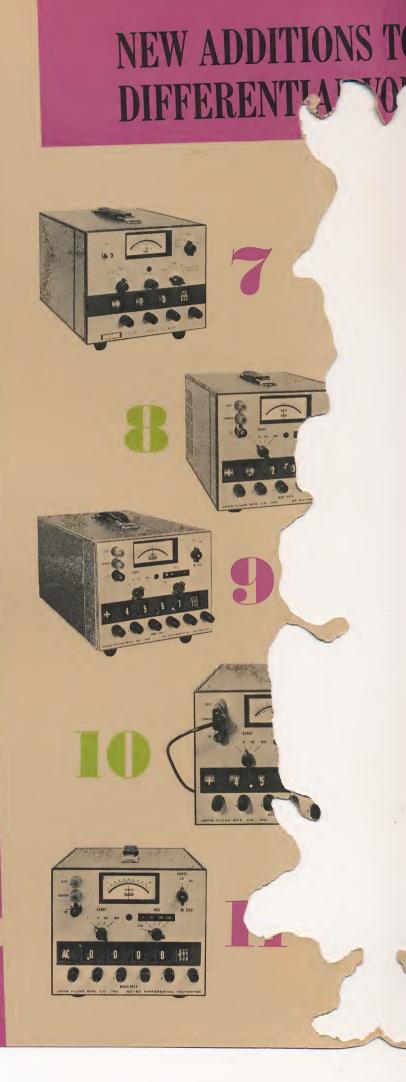
Modestly priced at \$825, the Fluke 881A is available in line powered or combination line and battery powered versions. Range is 0 to 1100 volts. Accuracy is $\pm 0.005\%$. Maximum meter resolution is 1 μ v.

THE FIRST TRULY PORTABLE LABORATORY STANDARD, 885A

Because it weighs only 14 pounds, offers an accuracy of 0.0025%, and operates from either line or battery power, the Fluke 885A is a truly portable laboratory standard. Maximum meter resolution is a mere 0.1 ppm. Peak-to-peak reference stability is 15 ppm for 60 days. If desired, the Fluke 885A can be used as an isolation amplifier. When the instrument is powered from batteries, ground loops are completely eliminated. Range is 0 to 1100 volts. Null sensitivity is 100 microvolts full scale. Price: \$965 plus \$130 for the rechargeable battery.

ACCURATE AC/DC SOLID STATE DIFFERENTIAL VOLTMETER, 887A

The Fluke 887A features a dc accuracy of $\pm 0.0025\%$ and an ac accuracy of $\pm 0.05\%$ over a range of 0 to 1100 volts. Basic frequency range is 20 Hz to 5 KHz with reduced accuracy to 5 Hz and 100KHz. Dial resolution is 1 ppm. Full scale null sensitivity is 100 microvolts. The Fluke 887A is available in line powered and combination line powered and rechargeable battery versions. Price: \$1,375 plus \$160 for the rechargeable battery pack.



TO THE BROADEST LINE OF OWETERS ON THE MARKET TODAY

GENERAL PURPOSE AC/DC DIFFERENTIAL VOLTMETER, 883A

Here is a compact solid state ac/dc ial voltmeter, offered in either a line powered nation line and battery powered version.

Acy is ±0.005% of input on dc and ±0.1% of input. Null sensitivity is 100 µv full scale. Weight is less 14 pounds. Price: \$1,215 plus \$160 for the argeable battery pack.



is instrument wherever operating temperatures 0° from 55°C. The 314B makes remote control switching of HF communications, RDF, and sounding systems possible. Spurious content a 100 db below the fundamental output. brovides local oscillator signals for the Racal F receivers.

FLUKE/MONTRONICS RECEIVER/ COMPARATOR GETS WORLDWIDE VLF RECEPTION

volved in frequency ation, this winner is for you. Sensitivity is 10 The Model 207-1 covers 240 channels, from 9 kc plus a 60 kc channel. Featuring a dynamic ver 80 db without AGC or operator adjustment, proper operation over a range of signal level cruations 100 times greater than anything else on the lid state integrated circuits and modular design g term reliability. Unique phase tracking servo, in chart and digital readout, simplifies use.

LOW COST SYNTHESIZER

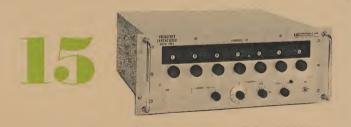
Iere's the best value in frequency ynthesizers on the market today. Priced at only \$6,950.

The Model 304A covers the frequency band of 50 Hz to 11 MHz in 1 Hz steps. Output is 1 volt rms ± 1 db. Long term stability and accuracy equal that of the input standard. Switching time from one frequency to any her is less than 1 millisecond.









Ι	would	like	more	information	on	the	circled	items.
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Title	

Company_____Street____

City & State_____ Zip____

Phone

NEW MODEL 725A SIX DIAL ELVIN-VARLEY VOLTAGE DIVIDER

At \$390, this is the most accurate divider in its class (± 5 ppm). It is designed to work in the laboratory, as a general purpose instrument, and also in production testing. It is the only available Kelvin-Varley divider with a "zero" power coefficient derating to 1100 volts dc.

SEE THE NEW FLUKE 24A, VERNIER POTENTIOMETER,

Here's the new precision potentiometer that does the work of a ten turn pot in just 11/2 turns-and does it better! You get higher resolution, better terminal linearity, five times faster setting, smaller size, lower price, and meet MIL spec requirements, too.

Terminal linearity is excellent with no offset at either zero or 100 percent. Noise is less than 100 ohms ENR. End resistance is less than 1 ohm. Over a wide frequency range, there is zero phase shift. Price: \$8.50 for single units.

NEW HIGH-SPEED, REMOTELY

Model 315A is designed specifically for the high-speed, remote-programming of voltage, current limit, and polarity. Voltage changes can be programmed in increments as small as 100 microvolts with 1-2-4-8 input coding.

Accuracy is $\pm 0.025\%$ or $100\,\mu v$ over a voltage range of 0 to 50 vdc. Output is 0 to 2 amperes.

Stability is $\pm 0.005\%$ per day or $\pm 0.01\%$ per month. Line and load regulation are 0.0005%. Either terminal can be floated 500 volts above ground. Ripple is less than 500 microvolts RMS. Price: \$1,895.

Model 383B Voltage/Current Calibrator offers remote programming for systems application. Voltage range is 0 to 50 vdc, and 0 to 2 amperes, with 5 ppm line and load regulation. Both use Fluke's specially selected and processed zener reference in a temperature-controlled oven to assure excellent calibration accuracy and stability.

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